

## PATENT COOPERATION TREATY

PCT

From the INTERNATIONAL BUREAU

NOTIFICATION OF THE RECORDING  
OF A CHANGE(PCT Rule 92bis.1 and  
Administrative Instructions, Section 422)

To:

ANDRITZ-AHLSTROM OY  
Patent Department  
P.O. Box 18  
FIN-48601 Karhula  
FINLANDE

Date of mailing (day/month/year) 18 April 2001 (18.04.01)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference P1518	
International application No. PCT/FI00/00695	International filing date (day/month/year) 17 August 2000 (17.08.00)

## 1. The following indications appeared on record concerning:

☒ the applicant
 ☒ the inventor
 ☐ the agent
 ☐ the common representative

Name and Address RAHKONEN, Riitta Kuusistontie 37 FIN-57600 Savonlinna Finland	State of Nationality FI	State of Residence FI
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	

## 2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

☐ the person
 ☐ the name
 ☒ the address
 ☐ the nationality
 ☐ the residence

Name and Address RAHKONEN, Riitta Turantie 5 A 3 FIN-48310 Kotka Finland	State of Nationality FI	State of Residence FI
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	

## 3. Further observations, if necessary:

## 4. A copy of this notification has been sent to:

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<input type="checkbox"/> the International Searching Authority	<input type="checkbox"/> the elected Offices concerned
<input type="checkbox"/> the International Preliminary Examining Authority	<input type="checkbox"/> other:

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Jean-Marie McAdams Telephone No.: (41-22) 338.83.38
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## PATENT COOPERATION TREATY

PCT

From the INTERNATIONAL BUREAU

NOTIFICATION OF THE RECORDING  
OF A CHANGE(PCT Rule 92bis.1 and  
Administrative Instructions, Section 422)

To:

ANDRITZ-AHLSTROM OY  
Patent Department  
P.O. Box 500  
FIN-48601 Kotka  
FINLANDE

Date of mailing (day/month/year) 01 November 2001 (01.11.01)	<b>IMPORTANT NOTIFICATION</b>
Applicant's or agent's file reference P1518	
International application No. PCT/FI00/00695	International filing date (day/month/year) 17 August 2000 (17.08.00)

## 1. The following indications appeared on record concerning:

☐ the applicant      ☐ the inventor      ☒ the agent      ☐ the common representative

Name and Address ANDRITZ-AHLSTROM OY Patent Department P.O. Box 18 FIN-48601 Karhula Finland	State of Nationality	State of Residence
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## 2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

☐ the person      ☐ the name      ☒ the address      ☐ the nationality      ☐ the residence

Name and Address ANDRITZ-AHLSTROM OY Patent Department P.O. Box 500 FIN-48601 Kotka Finland	State of Nationality	State of Residence
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## 3. Further observations, if necessary:

## 4. A copy of this notification has been sent to:

<input checked="" type="checkbox"/> the receiving Office	<input type="checkbox"/> the designated Offices concerned
<input type="checkbox"/> the International Searching Authority	<input checked="" type="checkbox"/> the elected Offices concerned
<input type="checkbox"/> the International Preliminary Examining Authority	<input type="checkbox"/> other:

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Jean-Marie MCADAMS Telephone No.: (41-22) 338.83.38
-----------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------

## PATENT COOPERATION TREATY

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## NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Commissioner  
 US Department of Commerce  
 United States Patent and Trademark  
 Office, PCT  
 2011 South Clark Place Room  
 CP2/5C24  
 Arlington, VA 22202  
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 in its capacity as elected Office

<b>Date of mailing (day/month/year)</b> 14 May 2001 (14.05.01)	
<b>International application No.</b> PCT/FI00/00695	<b>Applicant's or agent's file reference</b> P1518
<b>International filing date (day/month/year)</b> 17 August 2000 (17.08.00)	<b>Priority date (day/month/year)</b> 20 August 1999 (20.08.99)
<b>Applicant</b> MATULA, Jouni et al	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:  
 08 March 2001 (08.03.01)

☐ in a notice effecting later election filed with the International Bureau on:  
 \_\_\_\_\_

2. The election ☒ was  
☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

<b>The International Bureau of WIPO</b> 34, chemin des Colombettes 1211 Geneva 20, Switzerland  Facsimile No.: (41-22) 740.14.35	<b>Authorized officer</b>  Charlotte ENGER  Telephone No.: (41-22) 338.83.38
----------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------

(12) **UK Patent Application** (19) **GB** (11) **2 231 504 A** (13)  
(43) Date of A publication 21.11.1990

(21) Application No 8905238.6

(22) Date of filing 08.03.1989

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United Kingdom

(51) INT CL<sup>5</sup>  
B01D 21/18

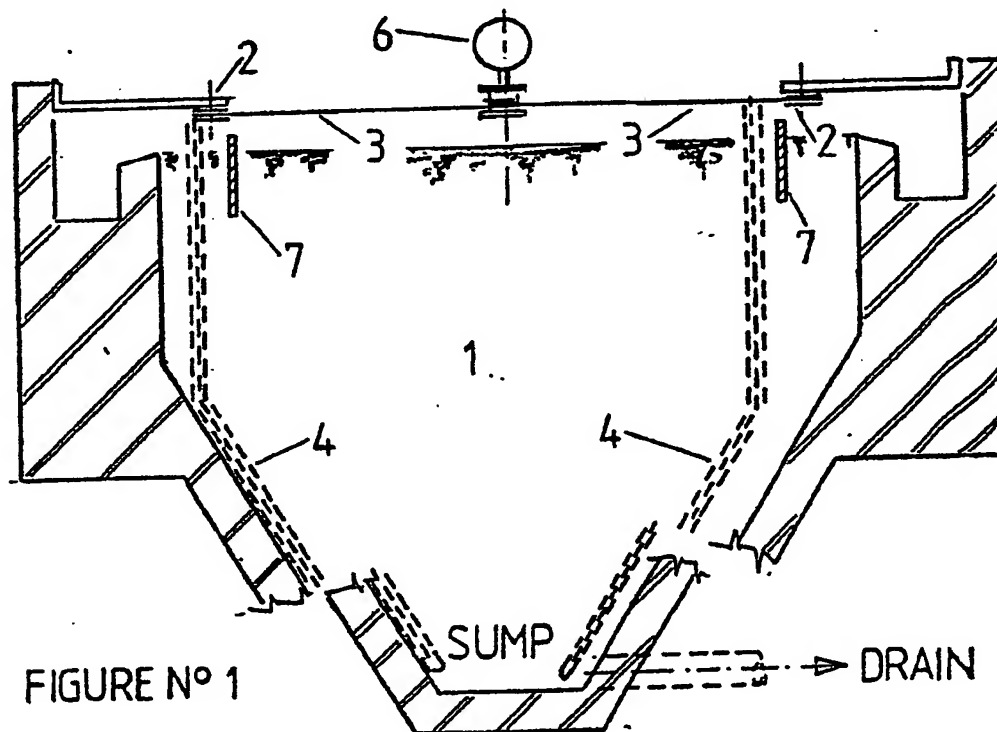
(52) UK CL (Edition K)  
B1D DPDB

(56) Documents cited  
GB 1177770 A GB 1009414 A GB 0944625 A  
GB 0486927 A GB 0378890 A

(58) Field of search  
UK CL (Edition J) B1D DPDB DPDD DPDX DPEA  
DPFC  
INT CL<sup>4</sup> B01D 21/06 21/18

(54) Rotary scraper for hopper [pyramidal] bottomed tanks

(57) A settling tank whose lower part is shaped like an inverted pyramid of rectangular cross-section is cleaned by one or more scraper chains 4 hanging down the tank sides from an endless cable 3 which is driven round pulleys 2 at the tank corners.



At least one drawing originally filed was informal and the print reproduced here is taken from a later filed formal copy.

GB 2 231 504 A

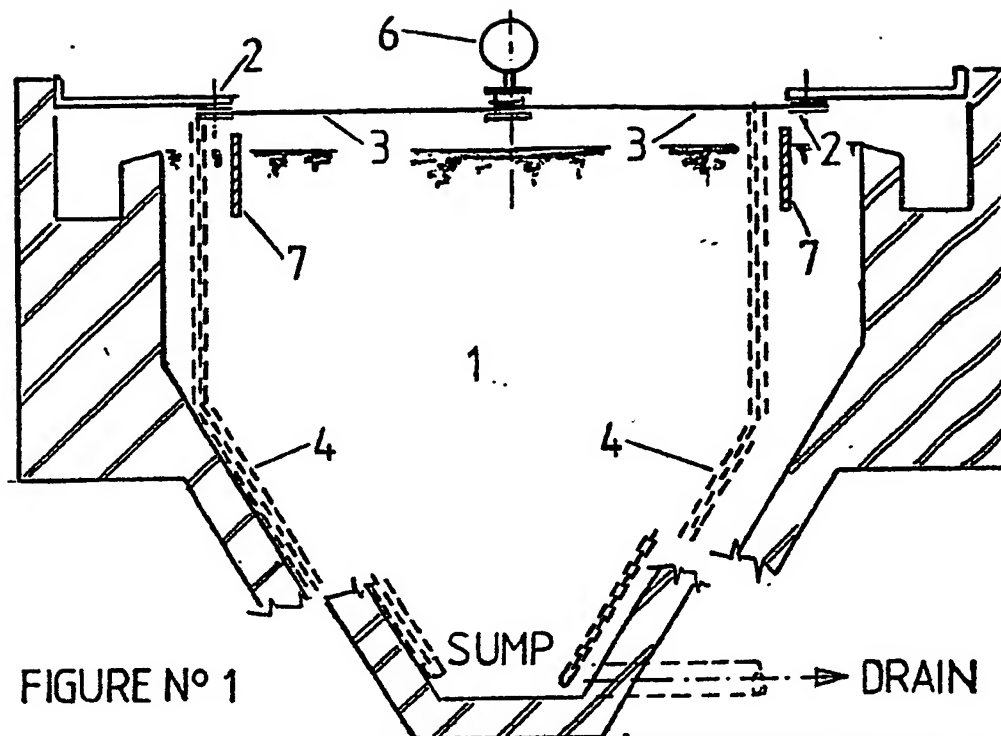


FIGURE N° 1

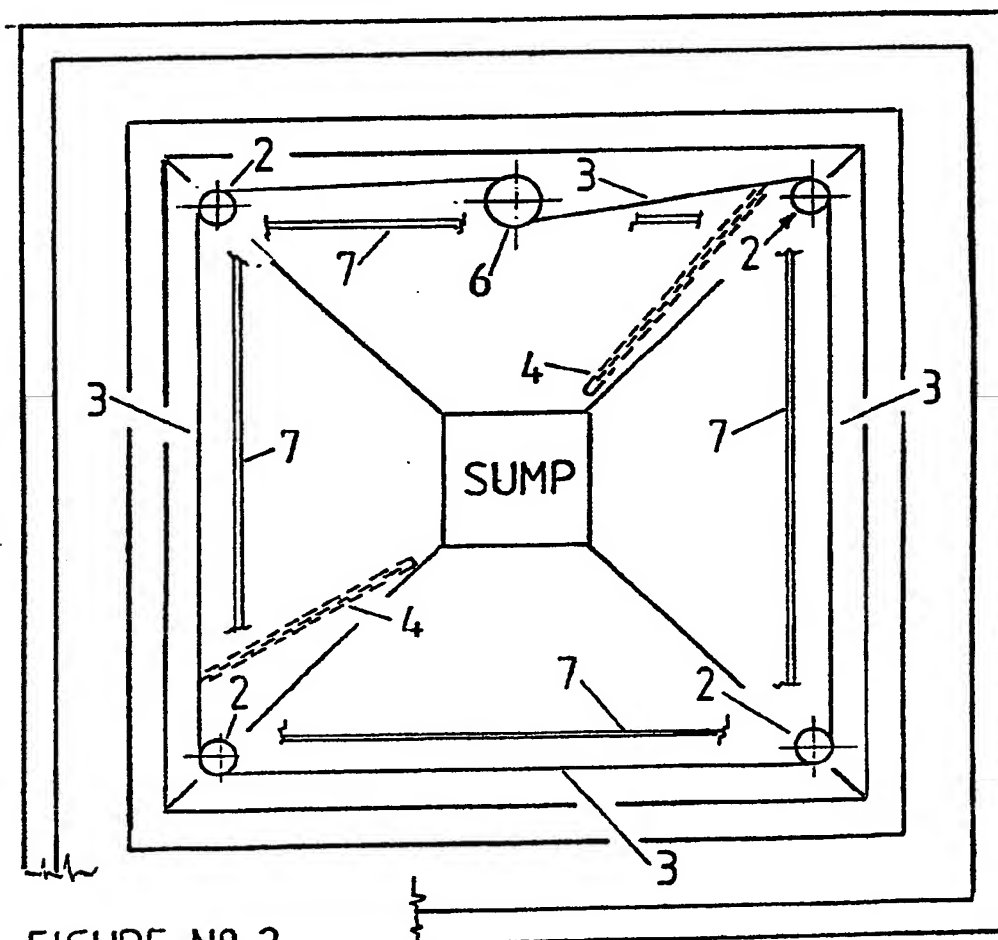


FIGURE N° 2

## ROTARY SCRAPER SYSTEM FOR HOPPER (PYRAMIDAL) BOTTOMED TANKS

### DESCRIPTION

This invention relates to equipment for scraping deposits from the walls (vertical and sloping) of hopper bottomed (pyramidal) tanks used usually (but not exclusively) as settling tanks at Sewage Treatment Works.

Methods of scraping circular and rectangular tanks are well known, and, until the recent introduction of automatic desludging it has generally been assumed that pyramidal tanks did not require scraping because the angle of the sides was "self-cleaning". However, in the past men have occasionally walked around a tank dragging a suspended chain around the sides to dislodge sludge. This is very labour intensive and is not often done. This invention is intended to remove deposits from the scraped surfaces by mechanical apparatus.

Treatment processes other than sewage treatment use hopper (pyramidal) bottomed tanks and this method of cleaning may be applied to these processes (eg. paper production).

According to the present invention there are four corner pulleys (or similar guides) which support a wire rope (chain or similar drive). A drive unit is provided to cause the wire rope (or similar) to be driven horizontally. The drive unit may take the place of a corner pulley. From the horizontal wire rope are suspended one or more chains (or similar flexible member) which are of a length to reach nearly to or to the bottom of the tank.

The system may be either hand operated or mechanically driven with, or without automatic controls, as desired.

A specific embodiment of the invention will now be described by way of example with reference to the accompanying drawing in which:-

Figure 1 is a section of a typical Hopper Bottomed Tank.

Figure 2 is a plan of a typical Hopper Bottomed Tank.

Referring to the drawing:-

The tank (1) has in each corner, and supported from the tank structure, a pulley (2) (or similar device) upon which runs a cable (3) (or similar support) to which is attached a chain (or similar flexible member) (4).

Scum boards (7), or similar obstructions, may determine the siting of the pulleys (2) and the number and arrangement of the pulleys.

The equipment (6) for horizontal driving of the rope (3) (or similar member) is indicated schematically and may be hand operated or motorised. Motorised systems may, if required, include various safety devices to detect tight or slack cables. The position and number of the suspended chains (4) may be dependent upon other equipment in the tanks and this may, in turn, effect the arrangement of pulleys (2).

By operating the equipment the wire rope (or similar) will be driven horizontally and the suspended chains will rotate around the tank internal surfaces dislodging deposits from the tank surfaces into the sump.

The periods between operating cycles will be determined to suit the particular treatment process and may be automatically controlled.

CLAIMS

Claim 1.

A system for scraping Hopper Bottomed (pyramidal) tanks comprising one or more suspended rotating scraper chains (or similar flexible members) and equipment for driving the scraper chains in a rotary motion around the tanks. The driving equipment may or may not be motorised or automated to suit the system requirements.

Claim 2.

A scraper system as claimed in Claim 1 with driving equipment to cause the suspended scraper chains to be driven in a reciprocating motion.



**(10) International Publication Number**  
**WO 01/14636 A1**

**(57) Abstract:** The present invention relates to a wire pit. A characteristic feature of the wire pit (50) according to the invention is that its wall/walls (52', 52", 54', 62) converge downwards so that the average flow direction of the liquid along the most part of the wire pit's (50) height deviates from vertical.

**WO 01/14636 A1**

# RECORD COPY PCT

## REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only	
International Application No.	PCT/FI 00 / 00695
International Filing Date	17 AUG 2000 (17-08-2000)
The Finnish Patent Office PCT International Application	
Name of receiving Office and "PCT International Application"	
Applicant's or agent's file reference (if desired) (12 characters maximum) P1518	

<b>Box No. I TITLE OF INVENTION</b>	
"Wire pit"	
<b>Box No. II APPLICANT</b>	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	
ANDRITZ-AHLSTROM OY Lars Sonckin kaari 12 FIN-02600 Espoo Finland	
<input type="checkbox"/> This person is also inventor. Telephone No. Facsimile No. Teleprinter No.	
State (that is, country) of nationality: FI	State (that is, country) of residence: FI
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input checked="" type="checkbox"/> all designated States except the United States of America <input type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box	
<b>Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)</b>	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	
MATULA, Jouni Kuusistontie 5 FIN-57600 Savonlinna Finland	
This person is: <input type="checkbox"/> applicant only <input checked="" type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below.)	
State (that is, country) of nationality: FI	State (that is, country) of residence: FI
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input checked="" type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box	
<input checked="" type="checkbox"/> Further applicants and/or (further) inventors are indicated on a continuation sheet.	
<b>Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE</b>	
The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	
<input checked="" type="checkbox"/> agent <input type="checkbox"/> common representative	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)	
ANDRITZ-AHLSTROM OY Patent Department P.O. Box 18 FIN-48601 Karhula Finland	
Telephone No. +358 5 224 5555 Facsimile No. +358 5 224 5339 Teleprinter No.	
<input type="checkbox"/> Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.	

## Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

*If none of the following sub-boxes is used, this sheet should not be included in the request.*

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

RAHKONEN, Riitta  
Kuusistontie 37  
FIN-57600 Savonlinna  
Finland

This person is:

- ☐ applicant only  
☒ applicant and inventor  
☐ inventor only (If this check-box is marked, do not fill in below.)

State (that is, country) of nationality:

FI

State (that is, country) of residence:

FI

This person is applicant for the purposes of:

☐ all designated States

☐ all designated States except the United States of America

☒ the United States of America only

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Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

- ☐ applicant only  
☐ applicant and inventor  
☐ inventor only (If this check-box is marked, do not fill in below.)

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of:

☐ all designated States

☐ all designated States except the United States of America

☐ the United States of America only

☐ the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

- ☐ applicant only  
☐ applicant and inventor  
☐ inventor only (If this check-box is marked, do not fill in below.)

State (that is, country) of nationality:

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This person is applicant for the purposes of:

☐ all designated States

☐ all designated States except the United States of America

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Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

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☐ applicant and inventor  
☐ inventor only (If this check-box is marked, do not fill in below.)

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State (that is, country) of residence:

This person is applicant for the purposes of:

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☐ Further applicants and/or (further) inventors are indicated on another continuation sheet.

**Box No.V DESIGNATION OF STATES**

The following designations are hereby made under Rule 4.9(a) (mark the applicable check-boxes; at least one must be marked):

**Regional Patent**

- ☐ **AP ARIPO Patent:** GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT
- ☐ **EA Eurasian Patent:** AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT
- ☒ **EP European Patent:** AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent Convention and of the PCT
- ☐ **OA OAPI Patent:** BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line) .....

**National Patent (if other kind of protection or treatment desired, specify on dotted line):**

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| <input type="checkbox"/> HR Croatia .....                               | <input type="checkbox"/> TZ United Republic of Tanzania                     |
| <input type="checkbox"/> HU Hungary .....                               | <input type="checkbox"/> UA Ukraine .....                                   |
| <input type="checkbox"/> ID Indonesia                                   | <input type="checkbox"/> UG Uganda .....                                    |
| <input type="checkbox"/> IL Israel .....                                | <input checked="" type="checkbox"/> US United States of America .....       |
| <input type="checkbox"/> IN India .....                                 | <input type="checkbox"/> UZ Uzbekistan .....                                |
| <input type="checkbox"/> IS Iceland                                     | <input type="checkbox"/> VN Viet Nam .....                                  |
| <input type="checkbox"/> JP Japan .....                                 | <input type="checkbox"/> YU Yugoslavia .....                                |
| <input type="checkbox"/> KE Kenya .....                                 | <input type="checkbox"/> ZA South Africa .....                              |
| <input type="checkbox"/> KG Kyrgyzstan                                  | <input type="checkbox"/> ZW Zimbabwe .....                                  |
| <input type="checkbox"/> KP Democratic People's Republic of Korea ..... |                                                                             |
| <input type="checkbox"/> KR Republic of Korea .....                     |                                                                             |
| <input type="checkbox"/> KZ Kazakhstan .....                            |                                                                             |

Check-box reserved for designating States which have become party to the PCT after issuance of this sheet:

☐ .....

**Precautionary Designation Statement:** In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

Box No. VI PRIORITY CLAIM		<input type="checkbox"/> Further priority claims are indicated in the Supplemental Box.		
Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is:		
		national application: country	regional application: regional Office	international application: receiving Office
item (1) 20 August 1999 (20.08.99)	19991779	FI		
item (2)				
item (3)				

☐ The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of the present international application is the receiving Office) identified above as item(s):

\* Where the earlier application is an ARIPO application, it is mandatory to indicate in the Supplemental Box at least one country party to the Paris Convention for the Protection of Industrial Property for which that earlier application was filed (Rule 4.10(b)(ii)). See Supplemental Box.

### Box No. VII INTERNATIONAL SEARCHING AUTHORITY

Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):

Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):

Date (day/month/year)

Number

Country (or regional Office)

ISA / SE

### Box No. VIII CHECK LIST; LANGUAGE OF FILING

This international application contains the following number of sheets:

request : 4  
description (excluding sequence listing part) : 15  
claims : 3  
abstract : 1  
drawings : 4  
sequence listing part of description : -

Total number of sheets : 27

This international application is accompanied by the item(s) marked below:

1. ☒ fee calculation sheet
2. ☐ separate signed power of attorney
3. ☒ copy of general power of attorney; reference number, if any:
4. ☐ statement explaining lack of signature
5. ☐ priority document(s) identified in Box No. VI as item(s):
6. ☐ translation of international application into (language):
7. ☐ separate indications concerning deposited microorganism or other biological material
8. ☐ nucleotide and/or amino acid sequence listing in computer readable form
9. ☐ other (specify):

Figure of the drawings which should accompany the abstract: 7

Language of filing of the international application: Finnish

### Box No. IX SIGNATURE OF APPLICANT OR AGENT

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).

ANDRITZ-AHLSTROM OY

  
Jyrki Ansala  
Patent Agent  
Patent Department

For receiving Office use only		(17-08-2000)	
1. Date of actual receipt of the purported international application:	17 AUG 2000	2. Drawings:	
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:		<input type="checkbox"/> received:	
4. Date of timely receipt of the required corrections under PCT Article 11(2):		<input type="checkbox"/> not received:	
5. International Searching Authority (if two or more are competent): ISA / SE	6. <input checked="" type="checkbox"/> Transmittal of search copy delayed until search fee is paid.		

For International Bureau use only		(05.09.00)	
Date of receipt of the record copy by the International Bureau:	05 SEPTEMBER 2000		